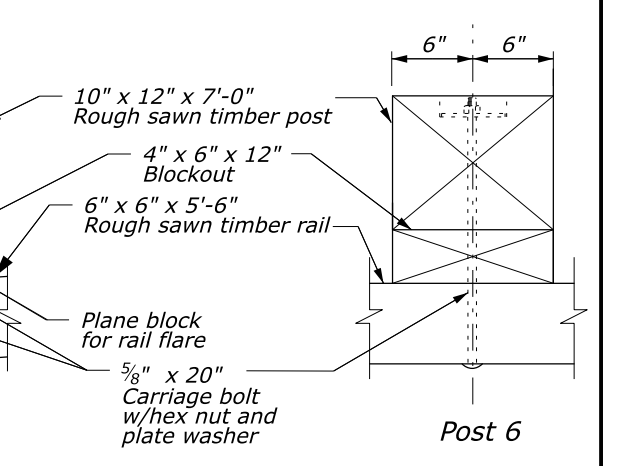
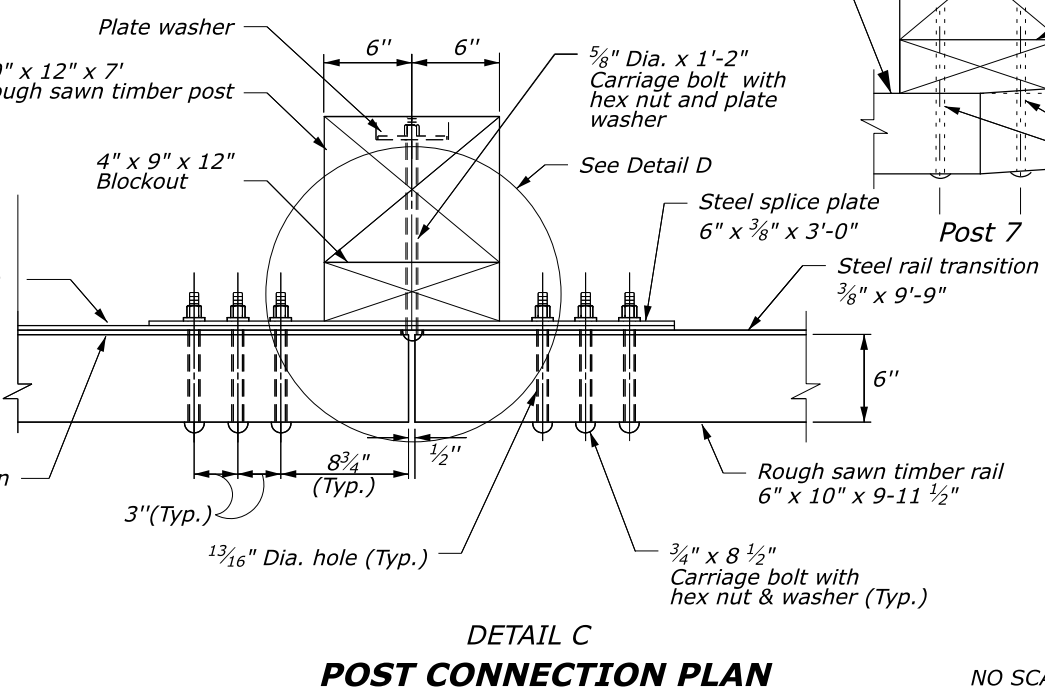
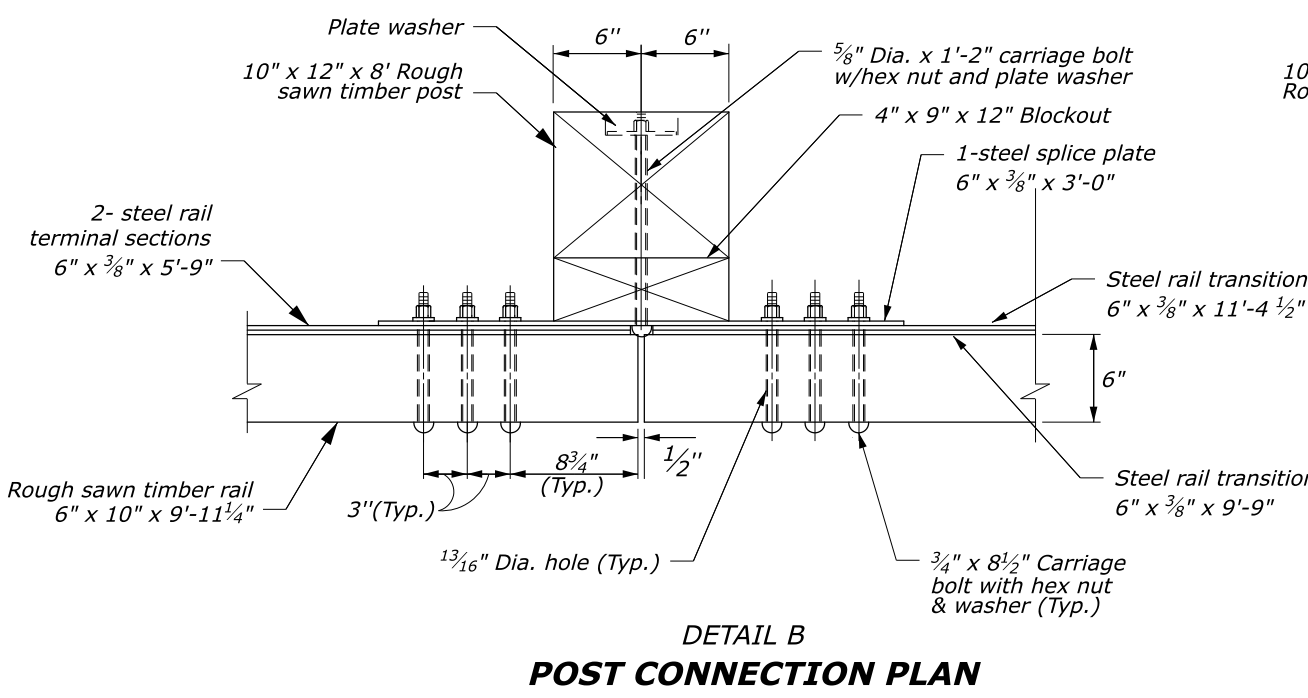
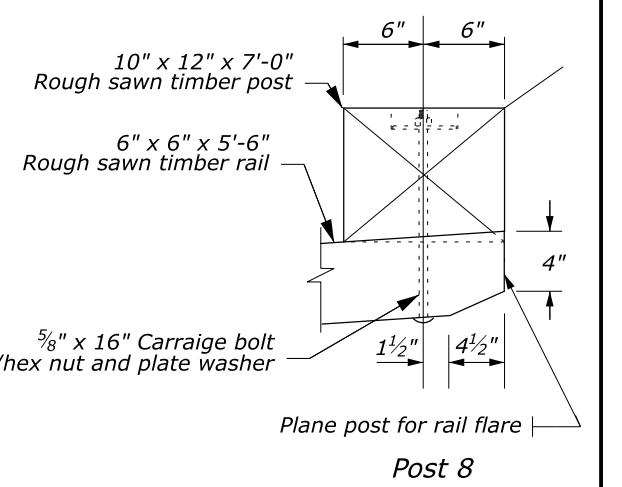


- NOTES:**
- See Sheet 2 of 3 for Sections A-A through C-C, and post connection Detail A. See Sheet 3 of 3, for steel rail details.
 - Use weathering steel for all structural steel and fastener hardware.
 - Transition shown for curved end structure. For transition to a straight parapet end, install the timber rail so that the face of the timber rail is offset 1-inch towards the roadway.



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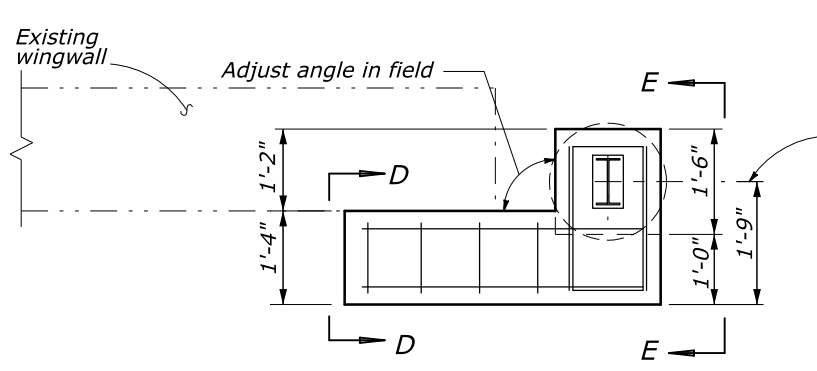
EFLHD DETAIL
**STEEL-BACKED TIMBER GUARDRAIL
TEST LEVEL 2 TRANSITION TO
STRAIGHT OR CURVED-END STRUCTURE**
Sheet 1 of 3

DETAIL APPROVED FOR USE
APPROVED: MAY 2011
REVISED: SEPTEMBER 2020

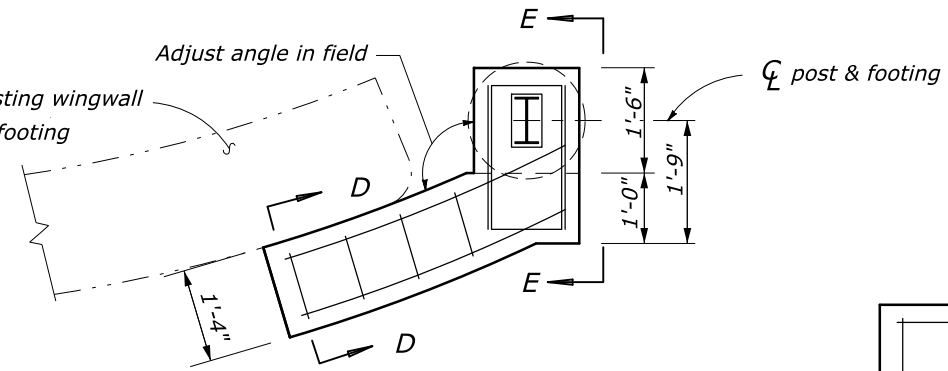
DETAIL
E617-67

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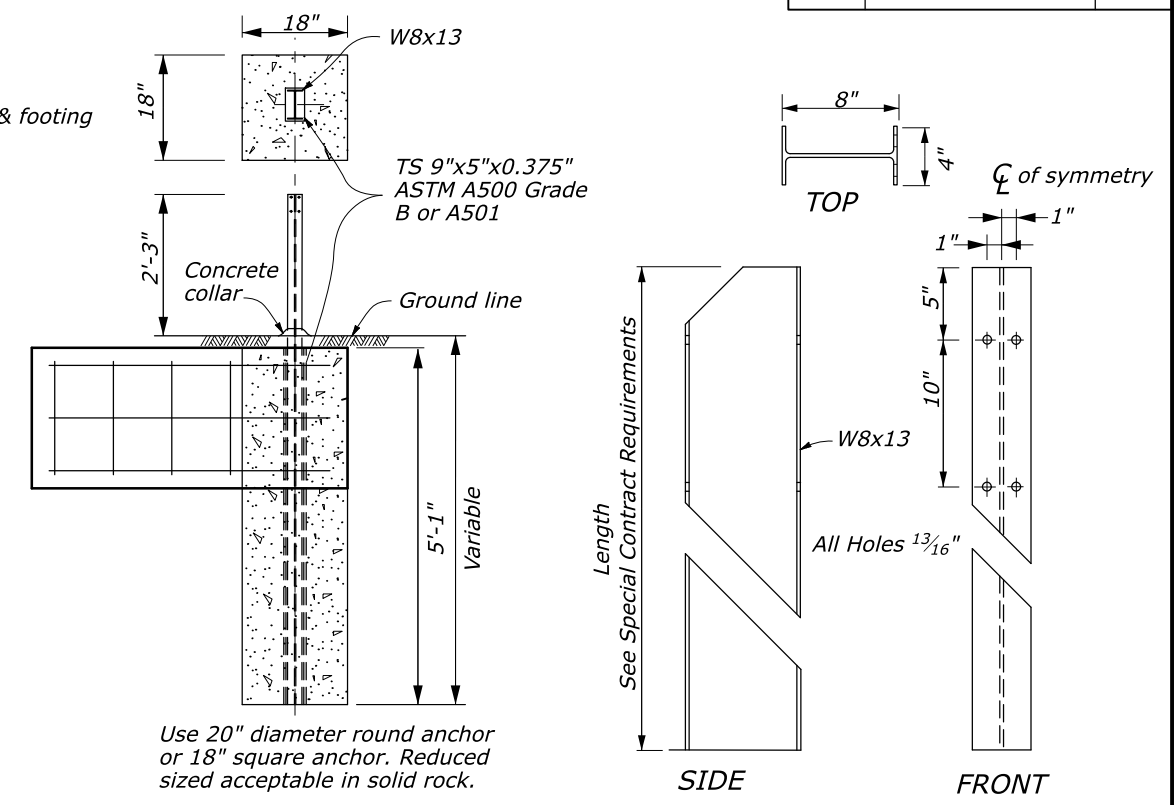
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PLAN FOR NON-FLARED WINGWALL

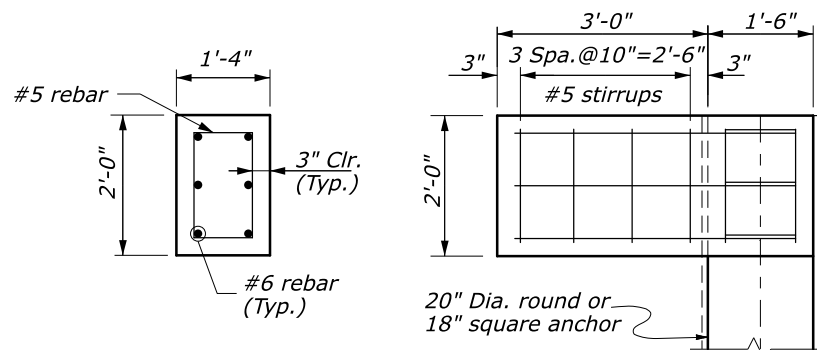


PLAN FOR FLARED WINGWALL

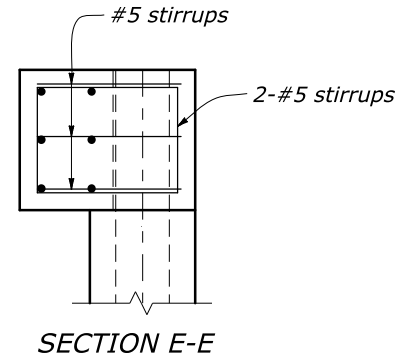


Use 20" diameter round anchor or 18" square anchor. Reduced sized acceptable in solid rock.

CONCRETE ANCHOR FOR GUARDRAIL POST



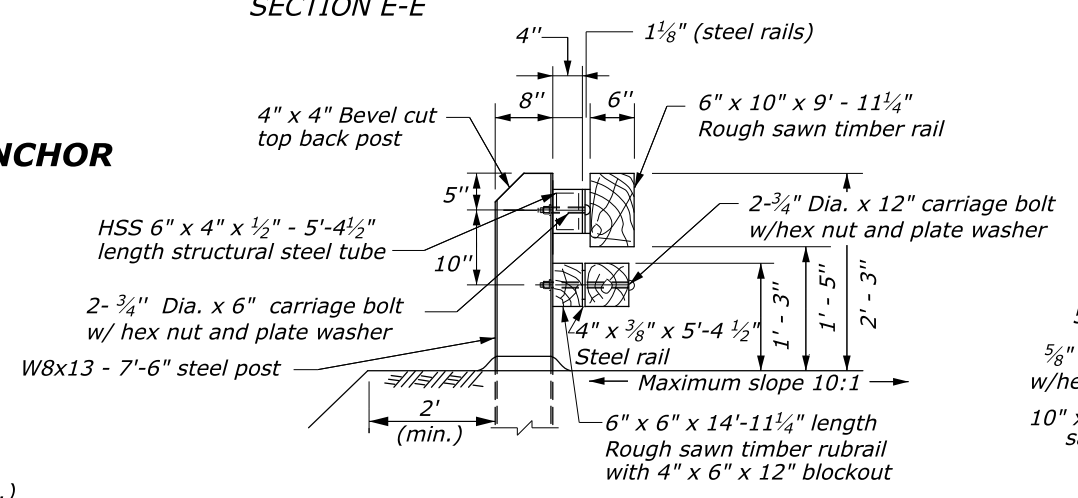
SECTION D-D (Wingwall Not Shown)



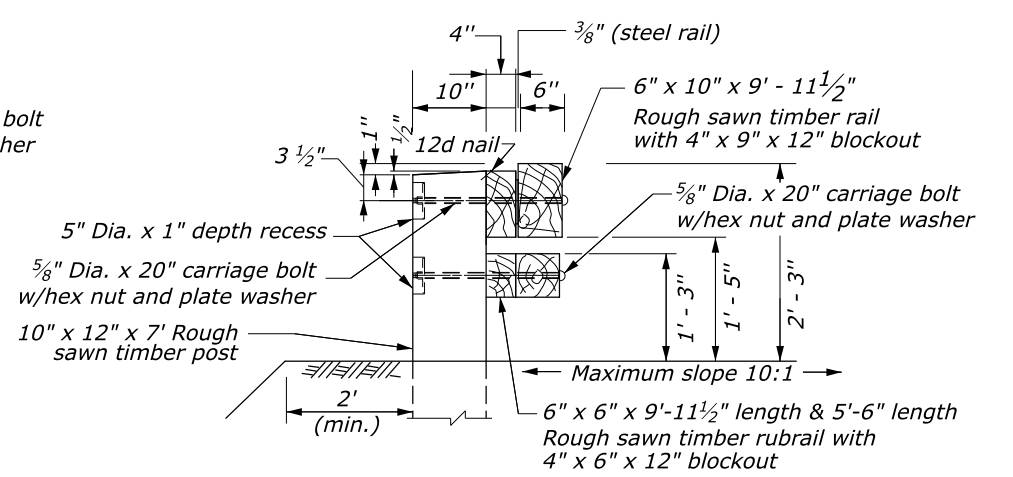
SECTION E-E

CONNECTION TO CONCRETE ANCHOR (Post Not Shown)

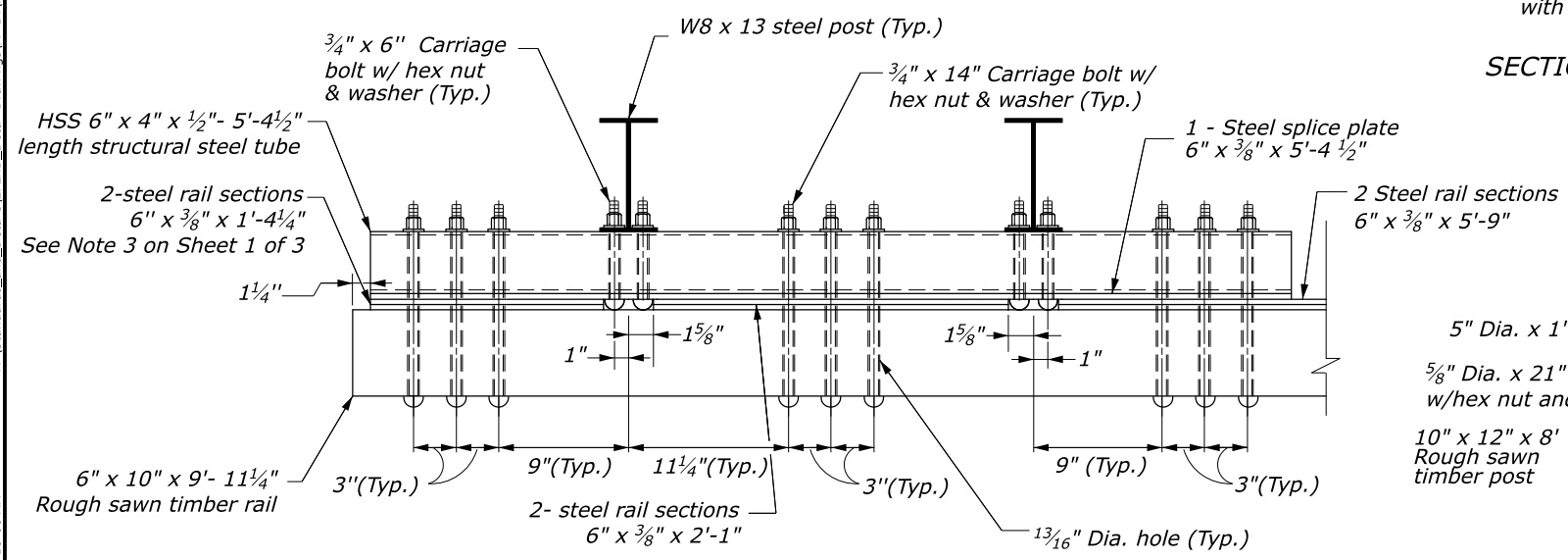
ELEVATION (Wingwall Not Shown)



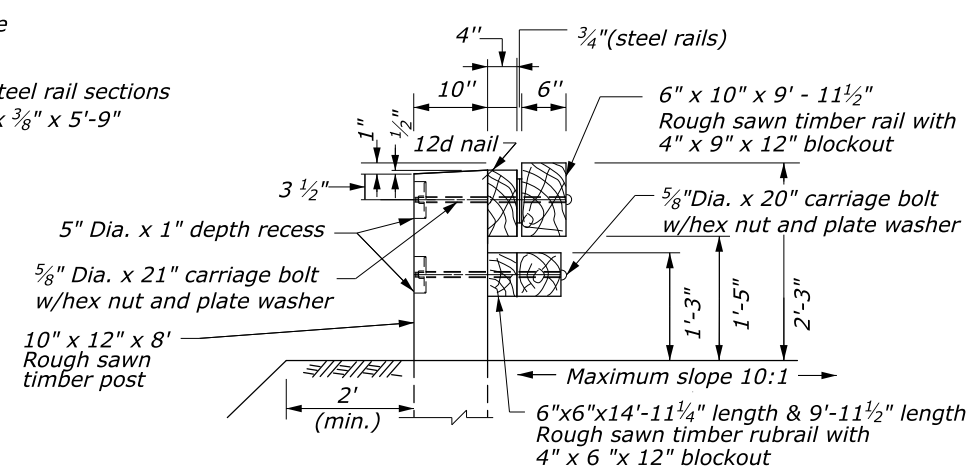
SECTION A-A



SECTION C-C



DETAIL A POST CONNECTION PLAN



SECTION B-B

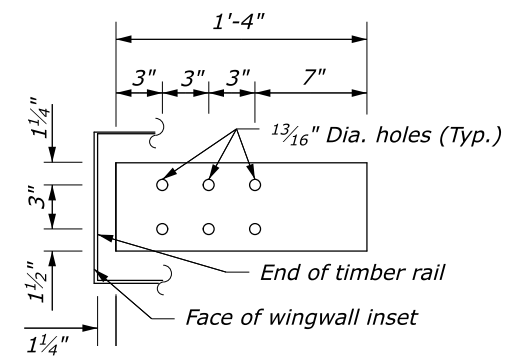
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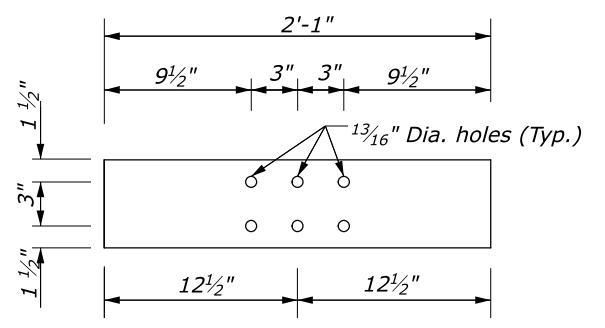
EFLHD DETAIL
STEEL-BACKED TIMBER GUARDRAIL
TEST LEVEL 2 TRANSITION TO
STRAIGHT OR CURVED-END STRUCTURE
Sheet 2 of 3

DETAIL APPROVED FOR USE APPROVED: MAY 2011 REVISED: SEPTEMBER 2020	DETAIL E617-67
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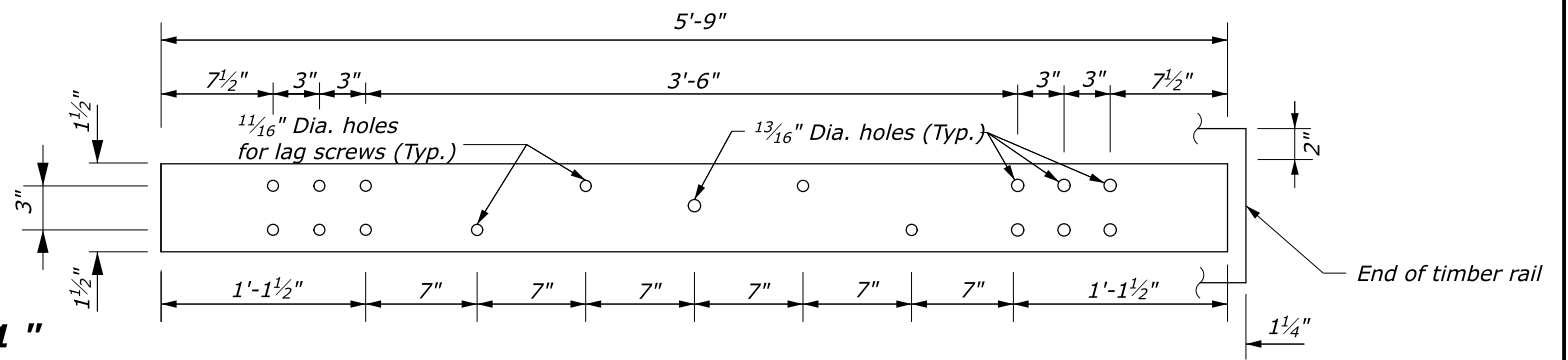
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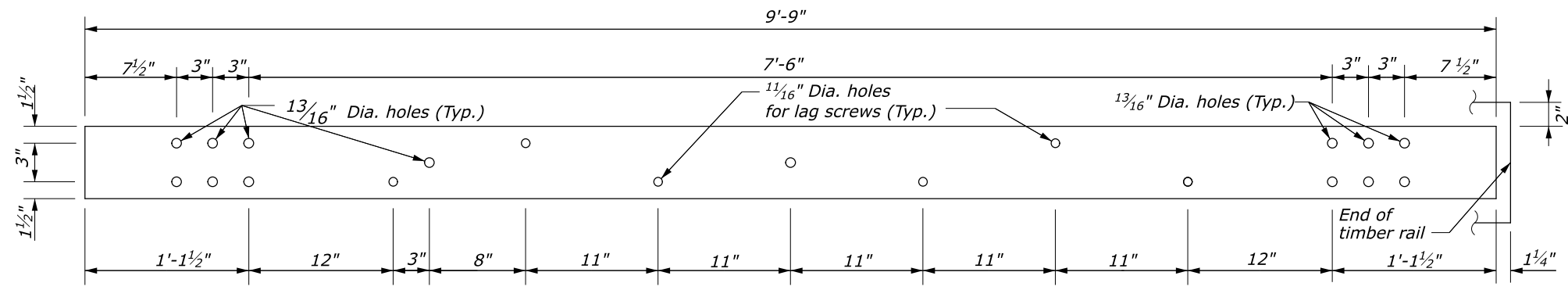
TERMINAL SECTION 6" x 3/8" x 1'-4"



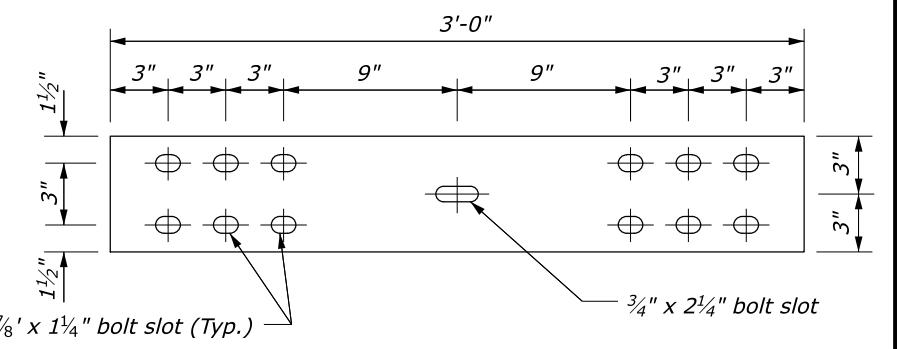
TERMINAL SECTION 6" x 3/8" x 2'-1"



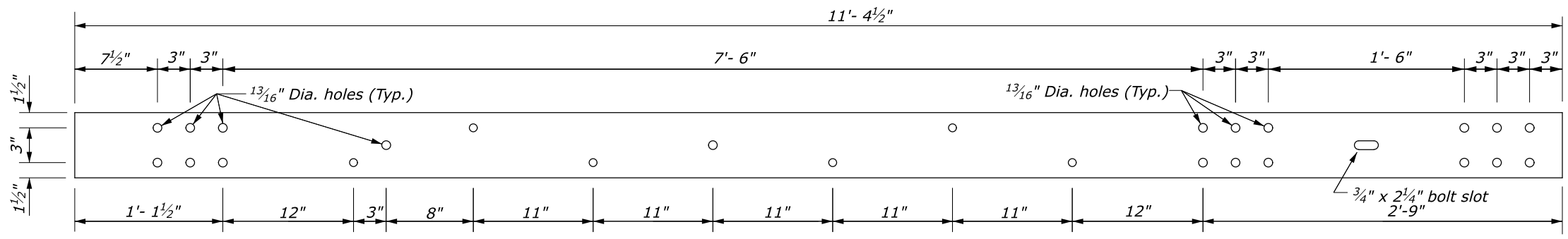
TERMINAL SECTION 6" x 3/8" x 5'-9"



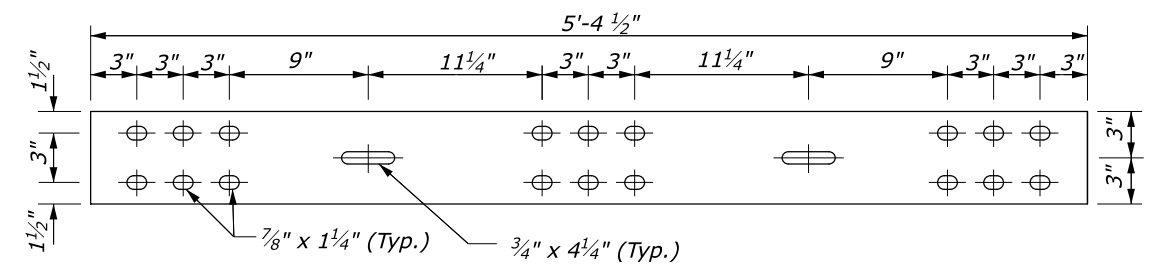
TRANSITION SECTION 6" x 3/8" x 9'-9"



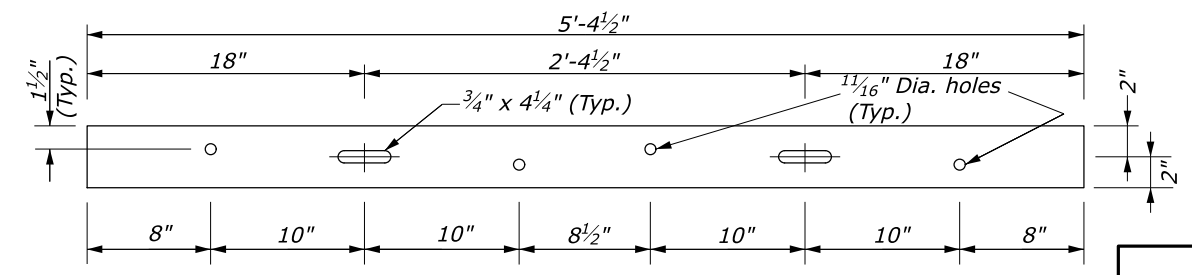
STEEL SPLICE PLATE 6" x 3/8" x 3'-0"



TRANSITION SECTION 6" x 3/8" x 11'-4 1/2"



STEEL SPLICE PLATE 6" x 3/8" x 5'-4 1/2"



TERMINAL SECTION (RUBRAIL) 4" x 3/8" x 5'-4 1/2"

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EFLHD DETAIL
**STEEL-BACKED TIMBER GUARDRAIL
 TEST LEVEL 2 TRANSITION TO
 STRAIGHT OR CURVED-END STRUCTURE**
 Sheet 3 of 3

DETAIL APPROVED FOR USE	DETAIL
APPROVED: MAY 2011	E617-67
REVISED: SEPTEMBER 2020	

NO SCALE

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